



Based on Form PTO-1449
(3/90)

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5701-00298

SERIAL NO.

Page 1

10/604,716

APPLICANT

James P. Ebling et al.

FILING DATE

August 12, 2003

January 20, 2005

U. S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPLICABLE
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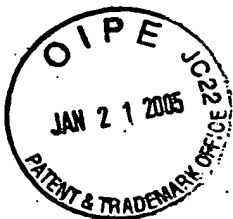
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

MA	AR	Communication pursuant to Article 96(2) EPC in European Application No. EP 00 98 0567.2 -2220 25 October 2004 in respect of examination results (3 pages), including all claims (1-10) of European Application No. EP 00 98 0567.2 (2 pages)
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPLICABLE
MA	AA	3,683,379	8/8/1972	Saddler et al.	343	7 ED	
MA	AB	5,264,859	11/23/1993	Lee et al.	343	754	
MA	AC	5,313,213	5/17/1994	Neumann et al.	342	165	
MA	AD	5,446,470	8/29/1995	Avingnon et al.	343	713	
MA	AE	5,963,172	10/5/1999	Pfizenmaier et al.	343	721	
MA	AF	6,606,077	8/12/2003	Ebling et al.	343	911L	
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MA	AA	3,761,936	9/25/1973	Archer et al.	343	754	
MA	AB	3,972,043	7/27/1976	Locus	343	756	
MA	AC	4,222,054	9/9/1980	Capps	343	754	
MA	AD	4,268,831	5/19/1981	Valentino et al.	343	754	
MA	AE	4,288,795	9/8/1981	Shelton	343	754	
MA	AF	4,638,322	1/20/1987	Lamberty	343	761	
MA	AG	4,641,144	2/3/1987	Prickett	343	754	
MA	AH	4,845,507	7/4/1989	Archer et al.	343	754	
MA	AI	4,983,237	1/8/1991	Alfing	156	83	
MA	AJ	5,099,253	3/24/1992	Archer	343	754	
MA	AK	5,204,686	4/20/1993	Petrelis et al.	342	374	
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MA	AR	G. Bekefi, and G. W. Farnell, "A homogenous dielectric sphere as a mi-crowave lens," Canadian Journal of Physics, vol. 34, pp. 790-803, 1956.					
MA	AS	G. Toraldo di Francia, "Spherical lenses for infrared and microwaves," Journal of Applied Physics, vol. 32, pp. 2051, 1961.					
MA	AT	Tomos L. Ap Rhys, "The design of radially symmetric lenses," IEEE Trans. on Antennas and Propagation, AP-18, pp. 497-506, July 1970.					
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MA	BA	5,274,389	12/28/1993	Archer et al.	343	754	1
MA	BB	5,347,287	9/13/1994	Speciale	342	375	
MA	BC	5,451,969	9/19/1995	Toth et al.	343	781 CA	
MA	BD	5,548,294	8/20/1996	Sturza	342	372	
MA	BE	5,576,721	11/19/1996	Hwang et al.	343	753	
MA	BF	5,712,643	1/27/1998	Skladany	343	700 MS	
MA	BG	5,745,082	4/28/1998	Alder	343	753	
MA	BH	5,821,908	10/13/1998	Sreenivas	343	911 R	
MA	BI	5,828,344	10/27/1998	Alder et al.	343	755	
MA	BJ	5,874,915	2/23/1999	Lee et al.	342	375	
MA	BK	5,892,487	4/6/1999	Fujimoto et al.	343	840	
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MA	BR	L. C. Gunderson, "An electromagnetic analysis of a cylindrical homogeneous lens," IEEE Trans. on Antennas and Propagation, AP-20, pp. 476-479, July 1972.					
MA	BS	S. Lee, M. S. Sheshadri, V. Jamnejad, and R. Mittra, "Refraction at a curved dielectric interface: geometrical optics solution," IEEE Trans. on Microwave Theory and Techniques, MTT-30, no. 1, pp. 12-19, Jan 1982.					
MA	BT	M. N. Afsar, "Dielectric measurements of common polymers at millimeter wavelength range," in IEEE MTT-S Digest, pp. 439-442, 1985.					
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MA	CA	5,894,288	4/13/1999	Lee et al.	343	770	/	
MA	CB	5,913,549	6/22/1999	Skladany	29	600		
MA	CC	5,926,134	7/20/1999	Pons et al.	342	368		
MA	CD	6,031,501	2/29/2000	Rausch et al.	343	754		
MA	CE	6,046,703	4/4/2000	Wang et al.	343	795		
MA	CF	6,061,035	5/9/2000	Kinasewitz et al	343	853		
MA	CG	6,424,319	7/23/2002	Ebling et al.	343	911		
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MA	CR	J. Ashkenazy, E. Levine, and D. Treves, "Radiometric measurement of antenna efficiency," in Electron. Lett., vol. 21, no. 3, pp. 111-112, Jan 1985.						
MA	CS	K. S. Yngvesson, T. L. Korzeniowski, Y. S. Kim, E. L. Kollberg, and J. F. Johansson, "The tapered slot antenna - a new integrated element for mm-wave applications," IEEE Trans. on Microwave Theory and Techniques, MTT-37, no. 2, pp. 365-374, Feb. 1989.						
MA	CT	J. Sanford, "A luneberg-lens update," IEEE Antennas and Propagation Magazine, vol. 37, no. 1, pp. 76-79, 1995.						
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MA	DR	S. Sugawara, Y. Maita, K. Adachi, K. Mori, and K. Mizuno, "A mm-wave tapered slot antenna with improved radiation pattern," in 1997 IEEE MTT-S Int. Microwave Symp. Dig., Anaheim, CA, June 1997, pp. 959-962.
MA	DS	K. K. Chan, S. K. Rao, G. A. Morin, and M. Q. Tang, "Triangular ray-tube analysis of dielectric lens antennas," IEEE Trans. on Antennas and Propagation, vol. 45, no. 8, pp. 1277-1285, Aug 1997.
MA	DT	F. Demmerle, S. Kern, and W. Wiesbeck, "A bi-conical multibeam antenna for space division multiple access," in Antennas and Propagation Society International Symposium, Montreal, Aug 1997, pp. 1082-1085.

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MA	ER	H. Mosallaci, and Yahya Rahmat-Samii "Nonuniform luneburg and two-shell lens antennas: radiation characteristics and design optimization," IEEE Trans. on Antennas and Propagation, vol. 49, no. 1, pp. 60-68, Jan 2001.					
MA	ES	I. Gresham, N. Jain, T. Budka, A. Alexanian, N. Kinayman, B. Ziegner, S. Brown, and P. Staecker, "A compact manufactureable 76-77-GHz radar module for commercial ACC applications," IEEE Trans. on Microwave Theory and Techniques, vol. 49, no. 1, pp. 44-58, Jan 2001.					
MA	ET	B. Schoenlinner; X. Wu; G.V. Eleftheriades; G.M. Rebeiz, "Spherical-Lens Antennas for Millimeter Wave Radars", European Microwave Week 2001 Proc., pp. 317-320, vol. 3, September, 2001.					
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MA	FR	B. Schoenlinner; G.M. Rebeiz, "Compact Multibeam Imaging Antenna for Automotive Radars", 2002 IEEE MTT-S Digest, pp. 1373-1376, June 2002.					
MA	FS	B. Schoenlinner; X. Wu; J.P. Ebling; G.V. Eleftheriades; G.M. Rebeiz, "Wide-Scan Spherical-Lens Antennas for Automotive Radars", IEEE Transactions on Microwave Theory and Techniques, vol. 50, no. 9, September 2002					
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